Service Manual

G-Shot P510

Version K01A

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1. Function Test

TOOL/EQUIPMENT

SM card*2, TV, AC adapter*2, lens-wiping paper

USB cable, flower, accessory, computer

OPERATION DESCRIPTION

ITEM	OPERATON DESCRIPTION
1	**Put the AA battery into the camera, press power key to power on, then you enter an image as the one on the right side. Check whether the image (Status Icon on LCD could not be covered or partly covered by the rear cover) and the indication symbols are normal or not. (Trigger mode, the quantity of captured images and the quality etc.)**
2	**Press Flash mode button and choose and mode respectively, then shoot a picture with your hand covering the lens to see whether the flash mode has triggered or not.**
3	**Turn the lens chamber to choose digital zooming mode, choose macro shooting+ off flash mode, shoot one image of the flowers. When you turn the lens chamber, check if it sways or emits any abnormal sound.**
4	**Turn the lens chamber to choose the digital zooming mode, choose micro shooting + off-flash mode to shoot one image.**
5	**Press Self-timer button, choose the or self-timer mode, then press Flash mode button to choose un-flash and shoot an image towards bright spots.**
6	**Press Mode button, choose Movie mode, shoot 5 to 10 minutes**
7	**Press Mode button, change to Display mode, review the images shot in the previous steps. Press the Still shutter button to review the movie, check if it is abnormal.**
8	**Check all the functions including in the main menu and use the USB cable to link the TV to see if it is normal. If everything is OK, delete all the images have shot.**
9	**Power off, insert SD card, power on again, repeat step 3 to 8.**
10	**Press MODE and MENU buttons at the same time, to check FW version, then press shutter button to reset camera, take out SD CARD and batteries.**

2. Troubleshooting

Item	NG point	NG Analyzing solution
Power system	**Power on fail(without current)**	**Changing the fuse on MCU PCB.**
	Power on fail(with 100uA current)	**Changing the MCU PCB.**
	Power on fail, with normal current	**Changing the MCU PCB.**
	Power on ok with LCD black /white images	**Changing the LCD FPC.**
	RTC function no good	**Changing the MCU PCB.**
	Auto serial capture after power on	**Changing the MCU PCB & shutter board**
	Power on ok, after capture, LED lamp always blinking, then camera shut down	
SD card fail	**1. SD card without written protection but with LCD display the icon** **2. after insert SD card ,camera can't recognize it**	**Changing the SD card base pin.**
Display system	**LCD display ok, but without TV display**	**Changing the MCU PCB.**
	USB no connection	**Changing the MCU PCB.**
Charging and triggering system	**Flash leakage**	**Changing the Flash tube.**
	No charging	**Changing the flash PCB.**
	With charging but without triggering	**Changing the flash PCB.**

If change any PCB of DSC, the calibration is necessary.

3. Disassemble Procedure

	Step	Figure	Description	Remark	Tools
Disassemble procedures	1		Finished Product	Examine if there's any scratch on the surface.	
	2		Remove all the screws on the camera housing.	Do not scratch the camera surface while removing the screws.	Screw driver
	3		Remove the Front Cover and Rear Cover.		
	4		Remove the Top Cover.	Unscrew the screw behind the capacitor first.	Screw driver
	5		Remove the screws of the Flash PCB.		Screw driver
	6		Remove the screws of the Main PCB		Screw driver

4. Firmware Update Procedure

Product : G-Shot P 510

To update this camera firmware, you will need to have

1. The new firmware file.
2. One SD card.
3. One card reader.

Please follow the steps below to perform the update process:

1. Prepare a formatted and empty SD card.
2. Insert a SD card to the card reader. Copy the firmware file (ie xxx.bin) into the SD card. Make sure the new firmware file is copied to the SD card.
3. Insert the SD card into the camera.
4. Plug in the AC adapter into the camera. The camera will then release 6 continuous beeps.
5. When hearing the “continuous beep” sound, Press shutter button once with the 6 continuous beeps. You will hear a single high frequency beep as you pressed the shutter button and the continuous beep stops.
6. If the shutter button wasn’t push during the “ continuous beep”, please return to step 4.
7. The LED will blink while updating firmware.
8. After 15 seconds, the camera will release another 6 beeps.
9. When the camera finishes beeps, power off the camera (remove the camera AC adapter) and remove SD card.
10. Reformat the SD card if you want to use it again.

Note: Don’t remove the power source during firmware update procedures.

Version check : Press and hold the shutter button then power on the camera.

5. Part List (G-Shot P510)

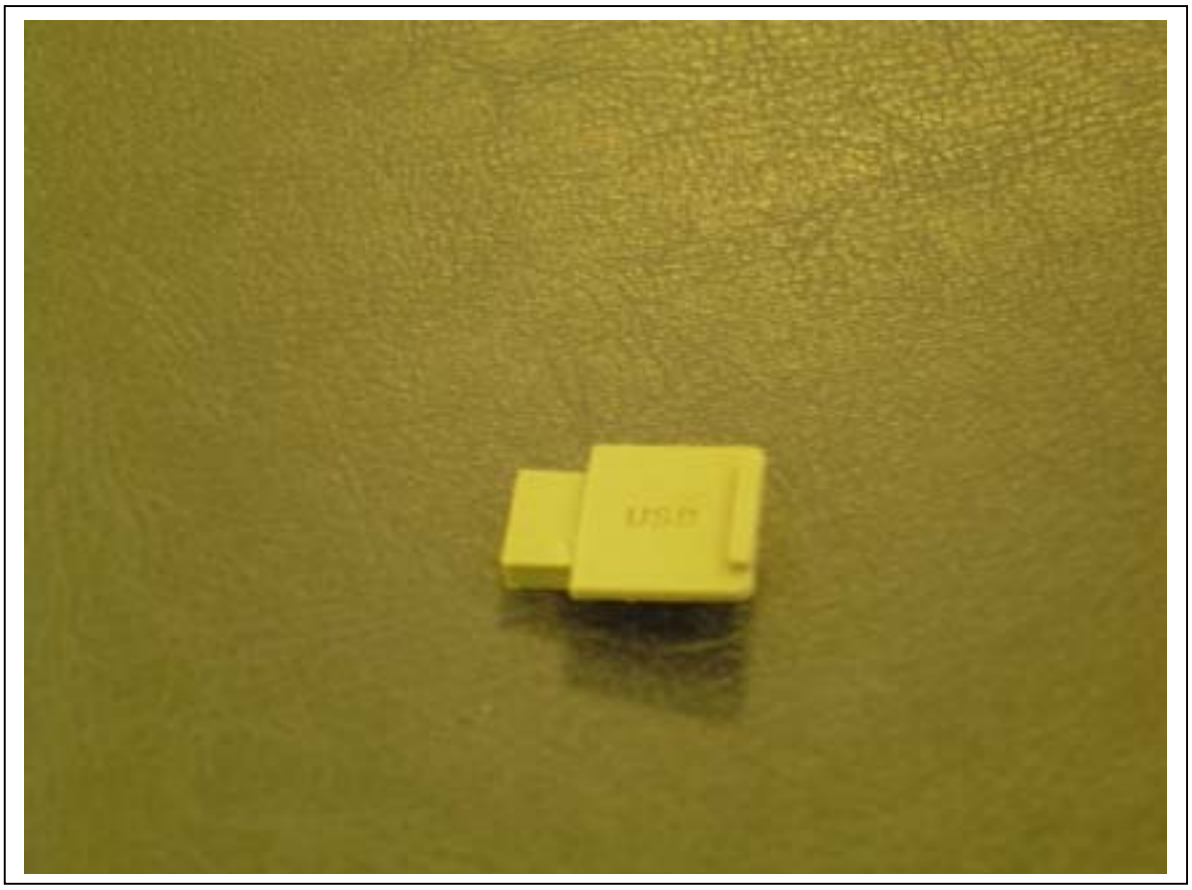
Item	Part Name	Part Number
1	Front Cover Assy	9H544-2000
2	Rear Cover Assy	9F644-3000
3	Battery Cover	9D134-460-98
4	USB Jack Cover	9D134-019*2BF
5	Flash PCB	9F647-4100
6	5 Way Buttons	9D234-005-3AG

1. Front Cover Assy

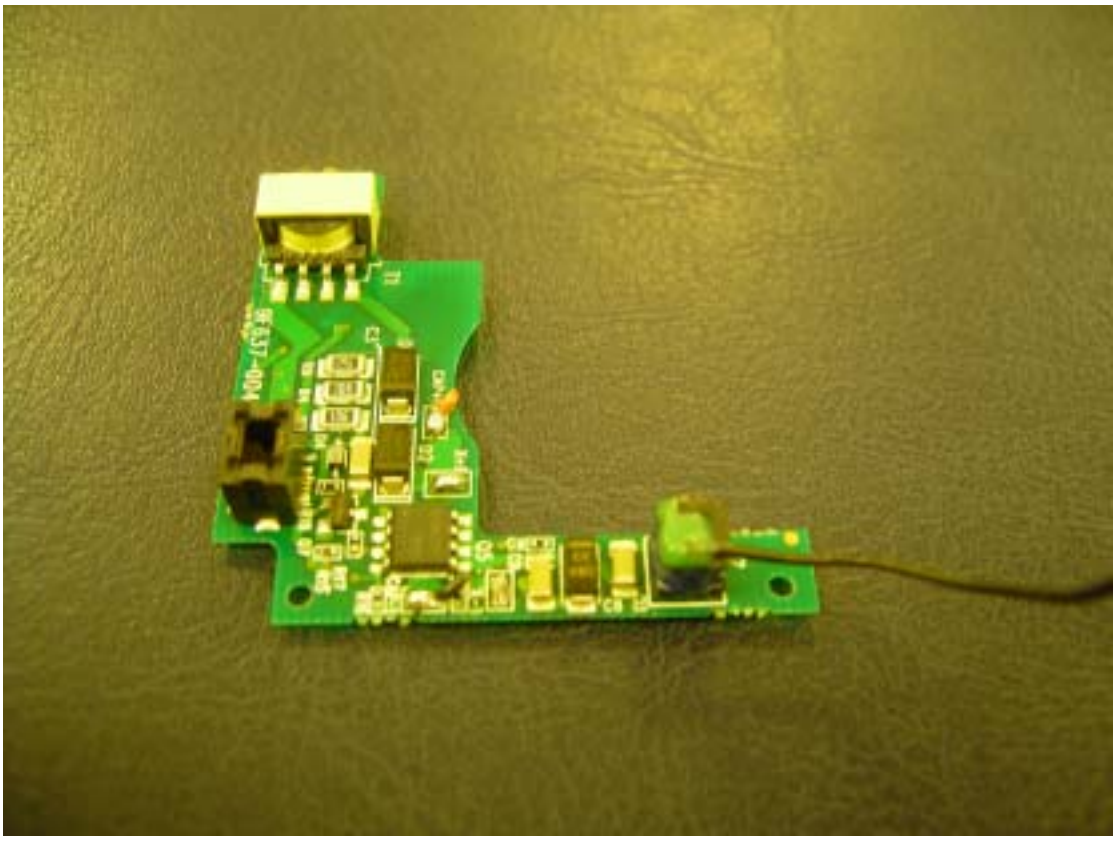
2. Rear Cover Assy

3. Battery Cover

4. USB Jack Cover



5. Flash PCB



6. 5 Way Button

6. Tooling

Item	Description	Mark
1	Screw Driver (2.0m/m)	
2	Tweezers	
3	Soldering iron	

1. Screw Driver

2. Tweezers

3. Soldering iron